

Amendments to the Specification:

Please omit the paragraph beginning on page 4, as follows:

~~SUMMARY OF THE INVENTION~~

~~According to one aspect of the invention, a memory module and method is provided including a plurality of memory devices and a memory hub. The memory hub contains a link interface, such as an optical input/output port, that receives memory requests for access to memory cells in at least one of the memory devices. The memory hub further contains a memory device interface coupled to the memory devices, the memory device interface being operable to couple memory requests to the memory devices for access to memory cells in at least one of the memory devices and to receive read data responsive to at least some of the memory requests. The memory hub further contains a performance counter coupled to the memory device interface and/or the link interface. The performance counter is operable to track at least one metric selected from the group consisting of page hit rate, number or percentage of prefetch hits, cache hit rate or percentage, read rate, number of read requests, write rate, number of write requests, rate or percentage of memory bus utilization, local hub request rate or number, and remote hub request rate or number.~~

Please amend the paragraph beginning on page 8, line 30, as follows:

In an embodiment of the present invention, each memory interface 270a-d is specially adapted to the system memory devices 240a-d to which it is coupled. More specifically, each memory interface 270a-d is specially adapted to provide and receive the specific signals received and generated, respectively, by the system memory device 240a-d to which it is coupled. Also, the memory interfaces 270a-d are capable of operating with system memory devices 240a-d operating at different clock frequencies. As a result, the memory interfaces 270a-d isolate the processor 104 from changes that may occur at the interface between the memory hub ~~230~~200 and memory devices 240a-d coupled to the memory hub 200, and it provides a more controlled environment to which the memory devices 240a-d may interface.